



State of Utah

Department of
Environmental Quality

Richard W. Sprott
Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

DAQE-IN0108850007-08

April 18, 2008

Jason Binggeli
Binggeli Rock Products, Inc.
P.O. Box 98
Heber City, Utah 84032

Dear Mr. Binggeli:

Re: Intent to Approve: Request to Modify Approval Order #DAQE-691-00 to Add Equipment
Wasatch County – CDS SM; NSPS; HAPs; TITLE V MINOR
Project Code: N010885-0007

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any questions you may have on this project to Mr. Tom Bradley. He may be reached at (801) 536-4014.

Sincerely,

John T. Blanchard, Manager
Minor New Source Review Section

JTB:TJB:sa

cc: Wasatch County Health Department

Mike Owens, EPA Region VIII

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**INTENT TO APPROVE: Request to Modify Approval Order
#DAQE-691-00 to Add Equipment**

**Prepared By: Tom Bradley, Engineer
(801) 536-4014
Email: tjbradley@utah.gov**

INTENT TO APPROVE NUMBER

DAQE-IN0108850007-08

Date: April 18, 2008

Binggeli Rock Products, Inc.

**Source Contact
Jason Binggeli
(435) 654-7480**

**M. Cheryl Heying
Executive Secretary
Utah Air Quality Board**

Abstract

Binggeli Rock Products, Inc. has requested a modification to their Approval Order # DAQE-691-00. The primary operation involves extraction, crushing, and screening of raw materials. Binggeli Rock Products, Inc. also has a concrete plant on site that uses this processed material. The modification involves changing and adding equipment. Binggeli Rock Products, Inc.'s aggregate and concrete production limits and hourly operation limits will remain the same.

Binggeli Rock Products, Inc.'s aggregate and concrete operation is located in Heber City, Utah in Wasatch County. Wasatch County is an attainment area for all National Ambient Air Quality Standards (NAAQS). New Source Performance Standards (NSPS) 40 CFR 60 Subparts A (General Provisions) and OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) regulations apply to this source. National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Achievable Control Technology (MACT) regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source.

There will be no increase in emissions from this modification.

The emissions, in tons per year, will be as follows: $PM_{10} = 13.74$, $NO_x = 27.76$, $SO_2 = 2.35$, $CO = 12.13$, $VOC = 2.53$

The Notice of Intent (NOI) for the above-referenced project has been evaluated and has been found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an Approval Order by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notice of intent to approve will be published in the Wasatch Wave on April 23, 2008. During the public comment period, the proposal and the evaluation of its impact on air quality will be available for both you and the public to review and comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated.

Please review the proposed Approval Order conditions during this period and make any comments you may have. The proposed conditions of the Approval Order may be changed as a result of the comments received. Unless changed, the Approval Order will be based upon the following conditions:

General Conditions:

1. This Approval Order applies to the following company:

Site Office
Binggeli Rock Products, Inc.
P.O. Box 98
Heber City, Utah 84032

Phone Number (435) 654-7480
Fax Number (801) 654-7077

The equipment listed in this AO shall be operated at the following location:

Three miles south of Heber City, Utah on Highway 189, Wasatch County

Universal Transverse Mercator (UTM) Coordinate System: 4,479.5 km. Northing, 461.7 km. Easting, Zone 12, UTM datum NAD27

2. All definitions, terms, abbreviations, and references used in this Approval Order (AO) conform to those used in the UAC R307 and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request. Records shall be kept for the following minimum periods:
 - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer
 - B. All other records Five years
6. Binggeli Rock Products, Inc. (Binggeli) shall install and operate the concrete and asphalt equipment and shall conduct its operations of the aggregate and concrete plants in accordance with the terms and conditions of this AO, which was written pursuant to Binggeli's NOI submitted to the Division of Air Quality (DAQ) on March 6, 2008.
7. This AO shall replace AO # DAQE-691-00 dated November 7, 2000.
8. The approved installations shall consist of the following equipment or equivalent*:

Aggregate Plant Equipment subject to NSPS 40 CFR Subpart 000

- A. One (1) jaw crusher/feeder, 54", 250 tph
- B. One (1) jaw crusher/feeder, 30" x 40", 200 tph
- C. One (1) dry 3-deck shaker screen, 6' x 20'
- D. Two (2) dry 3-deck shaker screen, 8' x 20'

- E. One (1) dry 2-deck shaker screen, 7' x 20'
- F. One (1) standard head cone crusher, 54", 275 tph
- G. One (1) fine head cone crusher, 45", 175 tph
- H. One (1) gyration head cone crusher, 38" x 12"
- I. One (1) vertical shaft impact crusher, 600 tph
- J. One(1) grizzly bar feeder

Aggregate and concrete plant equipment not subject to a NSPS standard

- K. One (1) wet 3-deck shaker screen, 7' x 20'
- L. One (1) wet 3-deck shaker screen, 7' x 20'
- M. Two (2) course material washers, 44"
- N. One (1) sand screw, 44"
- O. One (1) double sand screw, 36"
- P. One (1) sand clarifier, 30'
- Q. Three (3) sand cyclones, 15"
- R. One(1) SLP central mix concrete plant, 150 yd³/hr
- S. One (1) central vacuum dust collector
- T. One (1) caterpillar generator, 320 kW
- U. All plants will have miscellaneous equipment consisting of conveyors, stackers, loaders, dozers, material haul trucks, water trucks, and small fuel storage tanks.

* Equivalency shall be determined by the Executive Secretary.

- 9. Binggeli shall notify the Executive Secretary in writing when the installation of the new equipment listed in Condition #8 has been completed and is operational. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If construction and/or installation has not been completed within 18 months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-18.

Limitations and Tests Procedures

10. Visible emissions from the following emission points shall not exceed the following values:

- A. All crushers - 15% opacity
- B. All screens - 10% opacity
- C. All dust collector exhaust points – 10% opacity
- D. All conveyor transfer points - 10% opacity
- E. All diesel engines - 20% opacity
- F. All conveyor drop points - 20% opacity
- G. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

11. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made 1/2 vehicle length or greater behind the vehicle and at approximately 1/2 the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.
12. The following production and/or consumption limits shall not be exceeded:

Aggregate Plant Operations

- A. 900,000 tons of processed aggregate material total for all aggregate operations and equipment approved under this permit, per rolling 12-month period
- B. 6,000 hours per year of plant operation

Concrete Plant Operations

C. 150,000 cubic yards of concrete production per rolling 12-month total

D. 6,000 hours per year of plant operation

Fuel Usage

E. 150,000 gallons of diesel fuel per rolling 12-month period

To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by scale house records or vendor receipts. The records of production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

Roads and Fugitive Dust

13. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. The application of water or chemical treatment shall be used. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition or unless it is below freezing. The opacity shall not exceed 20% during all times the areas are in use. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

A. Date

B. Number of treatments made, dilution ratio, and quantity

C. Rainfall received, if any, and approximate amount

D. Time of day treatments were made

14. The haul road limitations shall be:

A. 0.25 miles in length

B. 15 miles per hour

This limitation shall not be exceeded without prior approval in accordance with R307-401, UAC. The haul road speed shall be posted, at a minimum, on site at the beginning of the haul road so that it is clearly visible from the haul road.

15. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

- A. All crushers
- B. All screens
- C. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant or as determined necessary by the Executive Secretary.

16. The storage piles shall be watered to minimize generation of fugitive dusts, as dry conditions warrant or as determined necessary by the Executive Secretary.
17. Binggeli shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with the Heber City Plant. Binggeli shall abide by the most current fugitive dust control plan approved by the Executive Secretary.

Fuels

18. The owner/operator shall use diesel fuel as a primary fuel in the generator.
19. The sulfur content of any fuel oil or diesel burned shall not exceed:

0.50 percent by weight for fuels used in the generator.

The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of sulfur content shall be either by Binggeli's own testing or test reports from the fuel marketer.

Federal Limitations and Requirements

20. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions) 40 CFR 60.1 to 60.18 and Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), 40 CFR 60.670 to 60.676 apply to this installation.
21. For sources that are subject to NSPS (provided there is an opacity standard in the applicable NSPS), visible fugitive emission observations that are performed during the initial compliance inspection shall consist of one-hour (10 observations of six minutes each) provided that there are no individual readings greater than 10 percent opacity; and there are no more than three readings of 10 percent for the one-hour period. When determining compliance with the fugitive emissions standard for any crusher, the observations shall consist of one-hour (10 observations of six minutes each) provided that there are no individual readings greater than 15 percent opacity; and there are no more than three readings of 15 percent for the one-hour period, otherwise the three-hour (30 observations of six minutes each) shall apply. Visible emission observations shall be

done in accordance with 40 CFR 60.675 (c) (3) (4) and 40 CFR 60, Appendix A, Method 9. It is the responsibility of the owner/operator of the source to supply these observations to the Executive Secretary. A currently certified observer must be used for these observations. Emission points that are subject to the initial observations are:

- A. All crushers
- B. All screens
- C. All conveyor transfer points

Records & Miscellaneous

- 22. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
- 23. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
- 24. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the DAQ. The UAC R307 rules used by DAQ, the NOI guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

<http://www.airquality.utah.gov/>

The annual emissions estimations below include point source, fugitive emissions, fugitive dust, road dust, and tail pipe emissions. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, Maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The controlled Potential To Emit (PTE) emissions for this source are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM ₁₀	13.74
B.	SO ₂	2.35
C.	NO _x	27.76
D.	CO.....	12.13
E.	VOC.....	2.53

The DAQ is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final AO.

Sincerely,

John T. Blanchard, Manager
Minor New Source Review Section